

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1 Claim 1. (*Currently Amended*) A quartz oscillator comprising:
2 a conductive base having a recessed portion provided on one face thereof by processing
3 to have an inverse mesa shape, the base forming an excitation electrode;
4 a quartz thin-film formed on the other face of the base by epitaxial growth to have a
5 thickness of 10 μ m or less, and a portion of the quartz thin-film forming a vibrating reed portion;
6 and [[:]]
7 ~~a vibrating reed portion; and~~
8 ~~excitation electrodes for mechanically supporting the quartz thin film and for vibrating~~
9 ~~the vibrating reed portion~~
10 another excitation electrode formed on the quartz thin-film,
11 wherein said excitation electrodes are adapted to mechanically support the quartz
12 thin-film and vibrate the vibrating reed portion.

1 Claim 2. (*New*) The crystal oscillator according to claim 1, wherein the base is one
2 selected from the group consisting of a single-element semiconductor, a compound
3 semiconductor, and an oxide.

1 Claim 3. (*New*) The crystal oscillator according to claim 2, wherein the single-element
2 semiconductor is one selected from the group consisting of Si and Ge, the compound
3 semiconductor is one selected from the group consisting of GaAs, GaP, GaN, ZnS, and SnSe, and
4 the oxide is one selected from the group consisting of Al₂O₃, ZnO, and MgO.